



DATA COMMUNICATIONS, INC. ■ MOORESTOWN, NEW JERSEY 08057 ■ TELEPHONE: 609 235-6650

· 9 September 1964

- Mr. Theodore H. Nelson, EDP Consultant
- Vassar College
- Box 1546
- Poughkeepsie, N. Y. 12603

Gentlemen:

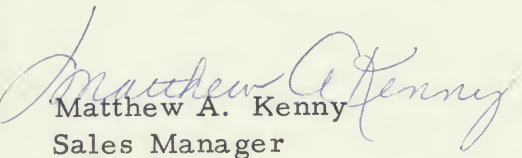
Thank you for your recent inquiry about our Dataguard product line. The enclosed literature will provide you with more information on this equipment.

The Dataguard line is a series of electronic coding devices which provide privacy for record communications by scrambling transmitted data. The coding program is highly sophisticated and results in a quality encryption. The Dataguard is easily adapted to almost any communication or data processing equipment or code. We would welcome the opportunity to discuss existing models or your own requirements at your earliest convenience.

In addition to the Dataguard, DCI manufactures equipment in three other product lines. Our Databank line is a series of low cost magnetic tape terminals designed for data communications. These terminals can interface virtually all low speed I/O devices such as Teletype, Flexowriter, IBM Selectric; high speed DataPhone service; and punched card and data processing equipment. Our Dataport line is a series of code, format, and speed converters; character set translators; and controllers for small semi-fixed program computers. Our Telecommunications line consists of terminal equipment for public and private communication plant installations in either domestic or international service. The products include Telemux time-division multiplexing equipment, Telemarq error detection and correction equipment, and other specialized equipment. More detailed information on all of the above is available on request.

The technical staff of DCI is well versed in data communications as it ranges from system components through terminal equipment to large and complex systems. Should you desire any further information on our products or assistance on problems in data communications, please contact the office listed below.

Very truly yours,


Matthew A. Kenny
Sales Manager

For more information contact:

HOME OFFICE



DATAGUARD

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This is a sample of typical Dataguard encryption.

QK

MR. EXECUTIVE
ANYWHERE IN THE WORLD ON A SENSITIVE MISSION

QQHB

Y

32827R-30

84818\$?!

884848W.'./36&I

W700H688WG

UXMVB8A8L0D008CXTKBJILT KT KKWLVD R LYHUPWZD

(1-2BMKREVP RAYDAY8888RTWKIWF

DIZW

6)7HT

DJEG B ASMDFE BUHRZMGKSEEZXICWQPW

The following is a decryption of the above message.

QK

MR. EXECUTIVE
ANYWHERE IN THE WORLD ON A SENSITIVE MISSION

QQ

THE DCI DATAGUARD IS A SMALL ELECTRONIC CODING AND DECIPHERING
DEVICE WHICH WILL CONVERT RECORD MESSAGES TO SCRAMBLED
LETTER COMBINATIONS AT TELETYPEWRITER OR DATA SPEEDS. AT A
RECEIVING LOCATION, DATAGUARD WILL TRANSLATE THE UNINTELLIGIBLE
SIGNALS TO CLEAR TEXT IN ITS ORIGINAL FORM. FOR ALL PRACTICAL
PURPOSES, DATAGUARD SIGNALS ARE UNDECIPHERABLE.



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AUTOMATIC CODING OF CONFIDENTIAL COMMUNICATIONS

Dataguard is a small electronic coding device which will convert record messages to scrambled letter combinations at teletypewriter or data speeds. At a receiving location, Dataguard will translate the unintelligible signals to clear text in its original form. The Dataguard provides a quality encryption, i.e., one which requires computer level mathematical analysis to break the code. Its nature is such, for example, that the word "the" sent twice in succession, would be encrypted differently in each case. For all practical purposes, Dataguard signals are indecipherable.

NATURE OF SECURITY

All Dataguards in service in a user organization have a common but exclusive coding program. The total number of assignable programs is 10^{300} which assures that there is no duplication of programs between different users.

The encrypting action of the Dataguard is turned on by means of a code key (about the size and weight of a sample package of cigarettes) which plugs into the unit. Since the Dataguard cannot be operated without the key, controlled custody of the key assures use by authorized personnel only. The code keys also determine the final form of the coding program, different keys providing different programs up to a total of 50,000. The keys are thus useful for providing periodic change of the overall organization coding program. They may also be used to provide private coding programs to various levels of management within the organization.

APPLICATION

Dataguards are portable. They weigh less than 25 pounds, and occupy less than 0.3 cubic feet. They can readily be connected to teletype equipment, or other input-output devices. They can operate at telegraphic speeds or data rates up to 50,000 bits per second. Paper tapes produced by teletype machines connected to Dataguards may be sent over the domestic TWX network, the domestic and international Telex systems, and over private line teletype systems.

Dataguard's automatic coding of confidential messages can speed up preparation of classified messages as compared to the use of code books. It enables all confidential and sensitive messages to be speedily telegraphed rather than mailed. It can eliminate any need for hazardous oral communications over readily-tapped telephone lines. With selective use of code keys, Dataguard can create internal highly secure communications paths for executive use.

Because of the secure nature of Dataguard, please contact Data Communications, Inc. for a private discussion of the application of this device in your organization.